

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW022219\  
 Data File : VW008790.D  
 Acq On : 22 Feb 2019 15:37  
 Operator : SY/VA  
 Sample : K1546-10RE  
 Misc : 4.90G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

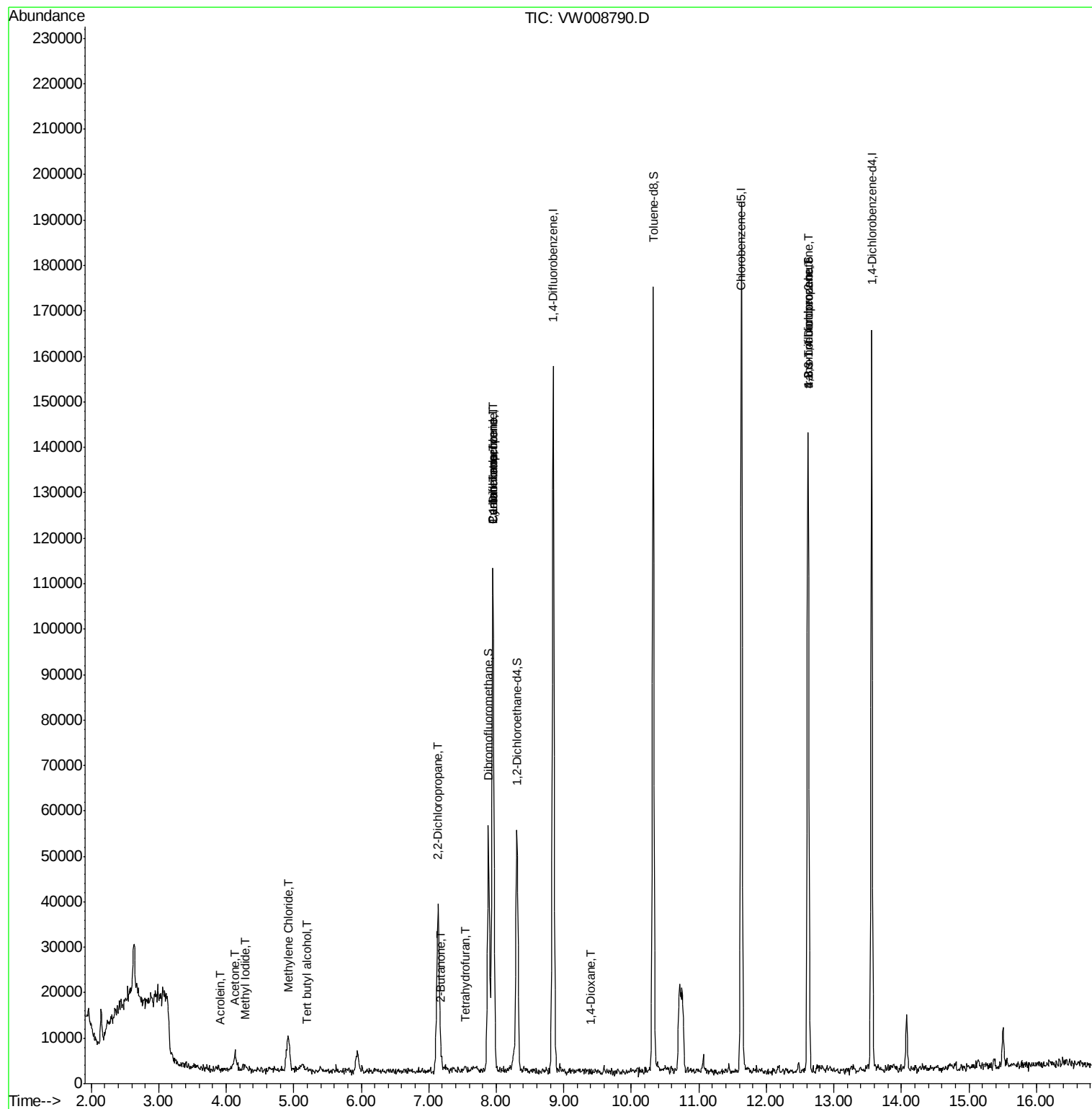
Quant Time: Feb 23 03:25:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

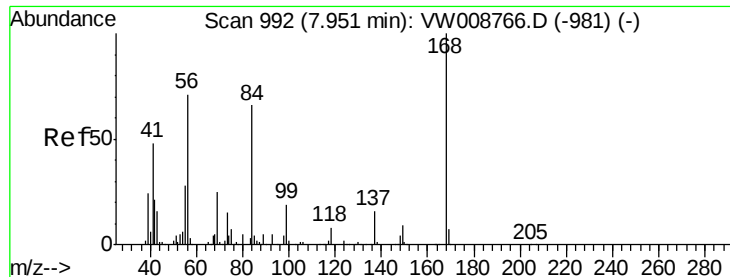
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 82349    | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 124528   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 104337   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 41693    | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.30  | 65   | 39124    | 50.66   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 101.32% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 35331    | 47.25   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 94.50%  |          |
| 50) Toluene-d8                 | 10.32 | 98   | 110592   | 38.32   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 76.64%  |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 38552    | 34.11   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 68.22%  |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 10) Methyl Iodide              | 4.28  | 142  | 1198     | 1.173   | ug/l #  | 68       |
| 11) Tert butyl alcohol         | 5.19  | 59   | 201      | 2.923   | ug/l #  | 70       |
| 13) Acrolein                   | 3.92  | 56   | 74       | 20.719  | ug/l #  | 1        |
| 16) Acetone                    | 4.13  | 43   | 7148     | 39.927  | ug/l    | 91       |
| 20) Methylene Chloride         | 4.93  | 84   | 6019     | 1.911   | ug/l #  | 74       |
| 25) 2-Butanone                 | 7.18  | 43   | 467      | 1.866   | ug/l    | 99       |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 2330     | 1.784   | ug/l #  | 54       |
| 29) Tetrahydrofuran            | 7.55  | 42   | 971      | 6.088   | ug/l #  | 59       |
| 31) Cyclohexane                | 7.96  | 56   | 2140     | 1.470   | ug/l #  | 48       |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 6995     | 5.770   | ug/l #  | 52       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7803     | 6.104   | ug/l #  | 16       |
| 49) 1,4-Dioxane                | 9.41  | 88   | 51       | 7.000   | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 20920    | 60.773  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 20920    | 147.744 | ug/l #  | 6        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 22 Feb 2019 15:37  
Operator : SY/VA  
Sample : K1546-10RE  
Misc : 4.90G/5ML/MSVOA\_W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 03:25:39 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008790.D

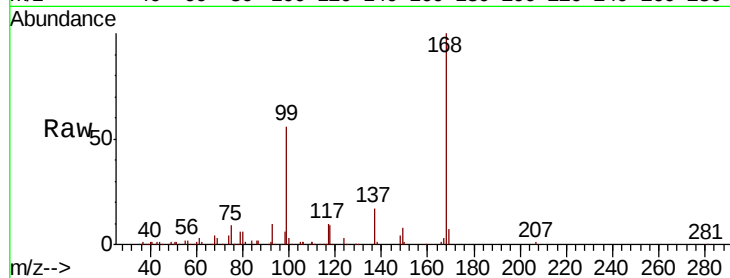
Acq: 22 Feb 2019 15:37

Tgt Ion:168 Resp: 82349

Ion Ratio Lower Upper

168 100

99 55.6 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

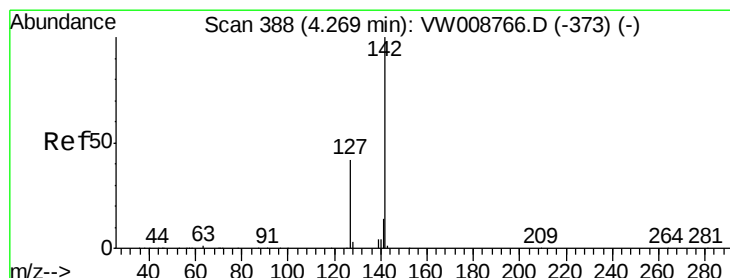
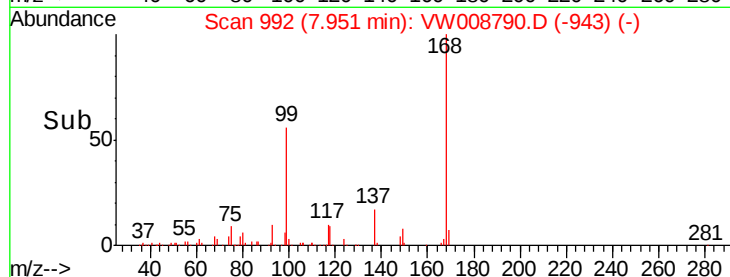
20000

10000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 1.173 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

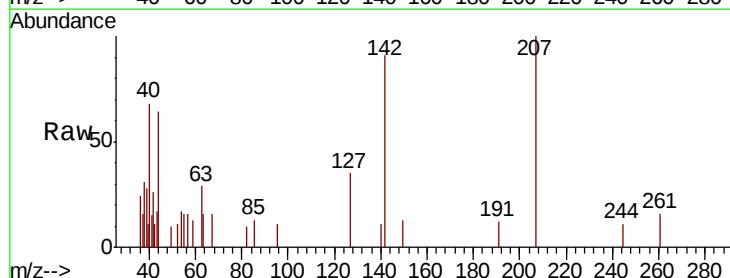
Tgt Ion:142 Resp: 1198

Ion Ratio Lower Upper

142 100

127 24.4 35.3 52.9#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.28

600

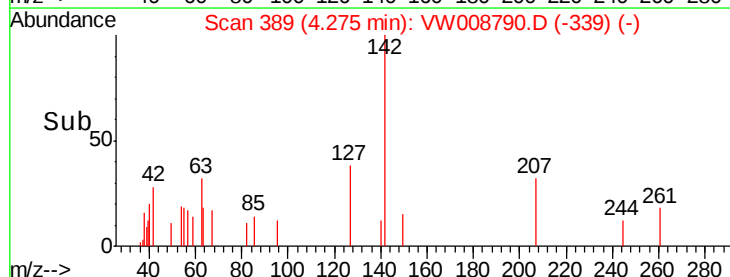
400

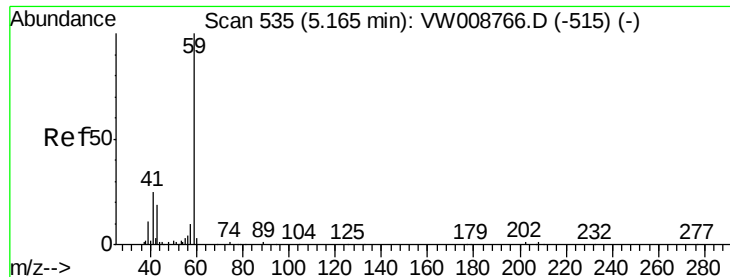
200

0

4.20 4.25 4.30 4.35

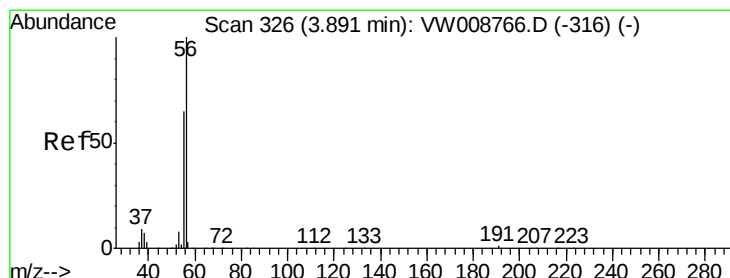
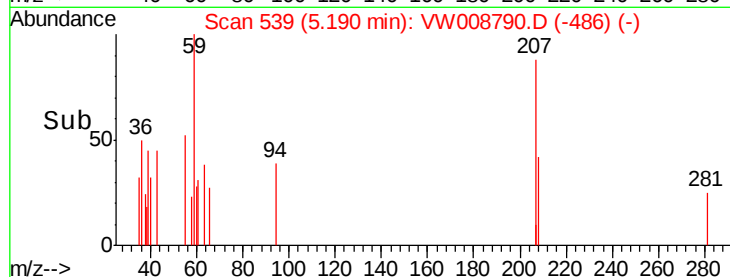
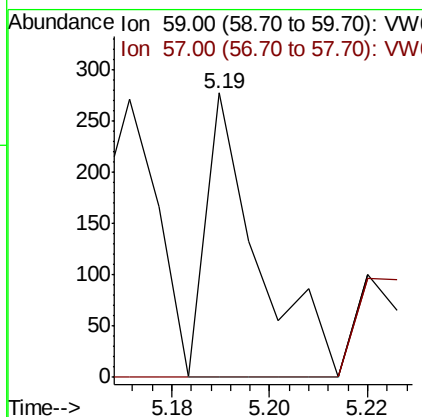
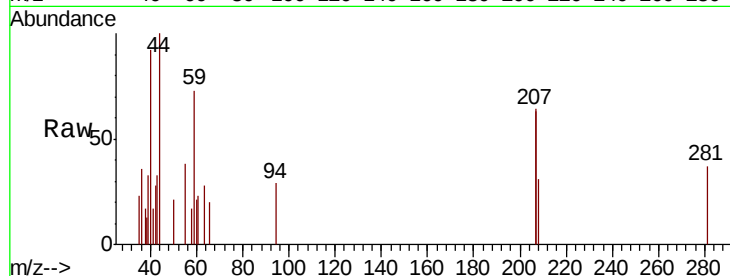
Time-->





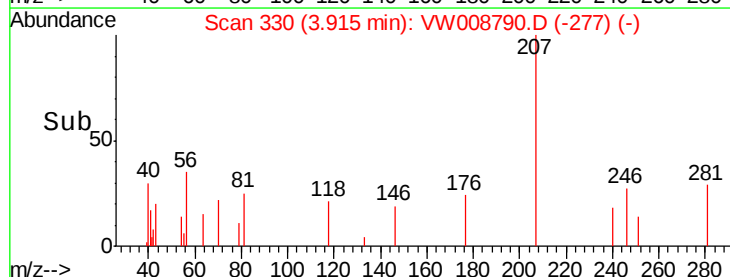
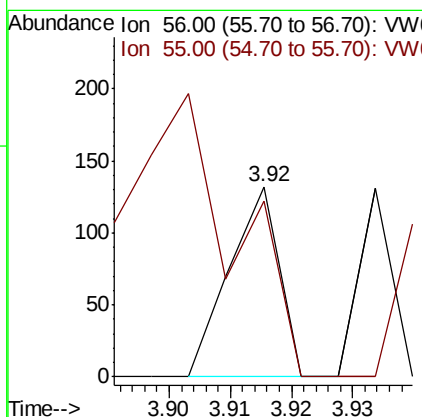
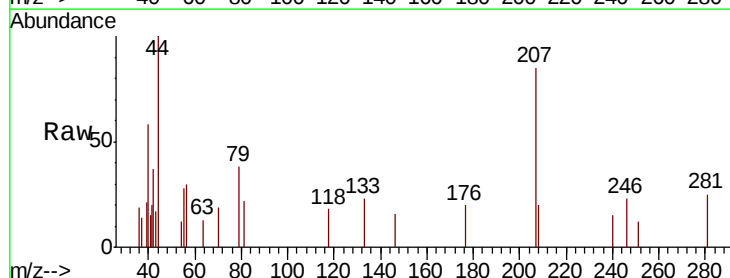
#11  
Tert butyl alcohol  
Concen: 2.923 ug/l  
RT: 5.19 min Scan# 539  
Delta R.T. 0.02 min  
Lab File: VW008790.D  
Acq: 22 Feb 2019 15:37

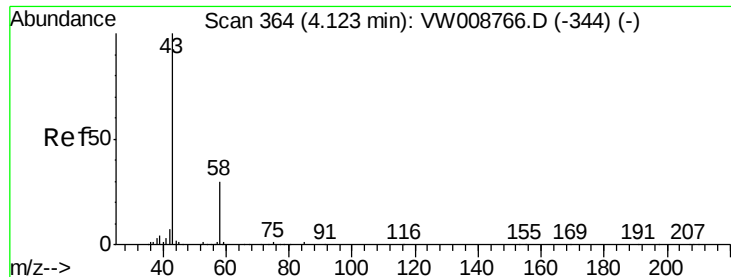
Tgt Ion: 59 Resp: 201  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.3 13.9#



#13  
Acrolein  
Concen: 20.719 ug/l  
RT: 3.92 min Scan# 330  
Delta R.T. 0.02 min  
Lab File: VW008790.D  
Acq: 22 Feb 2019 15:37

Tgt Ion: 56 Resp: 74  
Ion Ratio Lower Upper  
56 100  
55 387.8 56.9 85.3#





#16

Acetone

Concen: 39.927 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008790.D

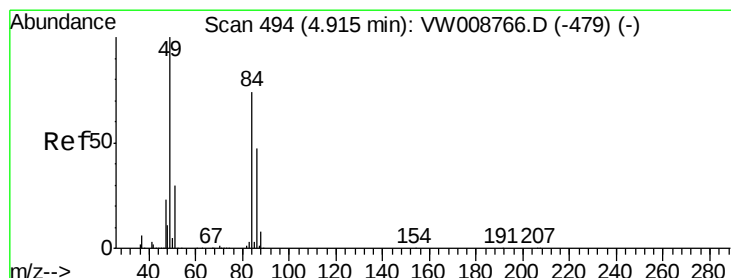
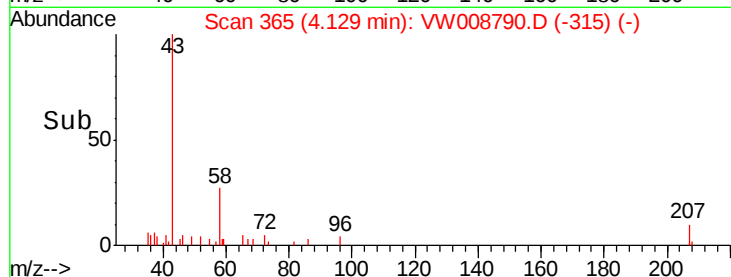
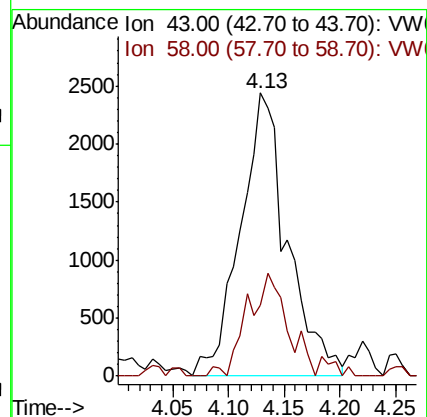
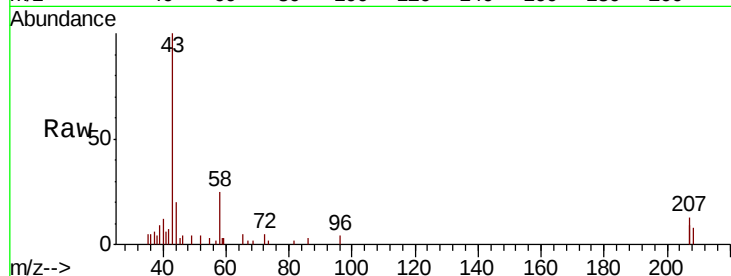
Acq: 22 Feb 2019 15:37

Tgt Ion: 43 Resp: 7148

Ion Ratio Lower Upper

43 100

58 24.9 23.8 35.6



#20

Methylene Chloride

Concen: 1.911 ug/l

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

Tgt Ion: 84 Resp: 6019

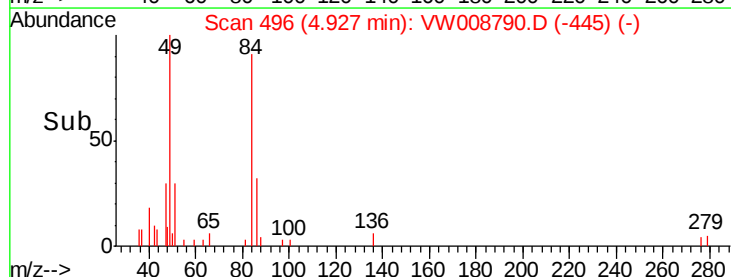
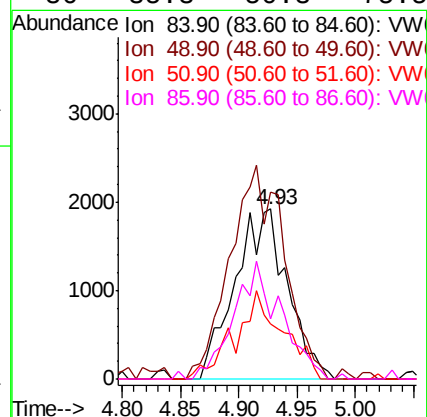
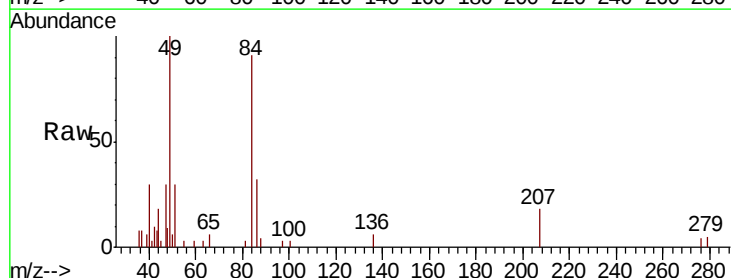
Ion Ratio Lower Upper

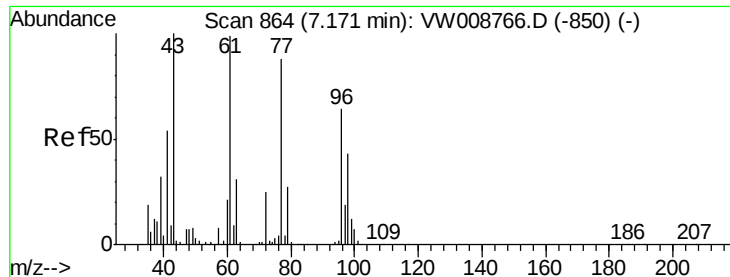
84 100

49 104.0 108.2 162.2#

51 32.6 32.7 49.1#

86 35.3 50.3 75.5#





#25

2-Butanone

Concen: 1.866 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW008790.D

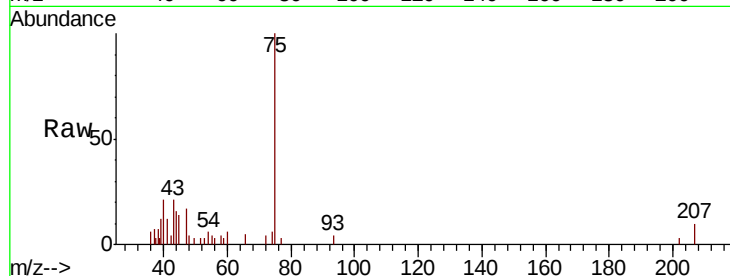
Acq: 22 Feb 2019 15:37

Tgt Ion: 43 Resp: 467

Ion Ratio Lower Upper

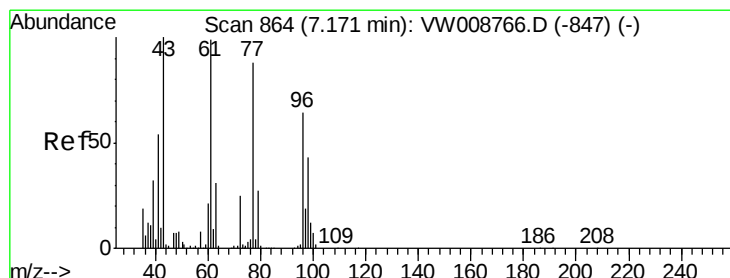
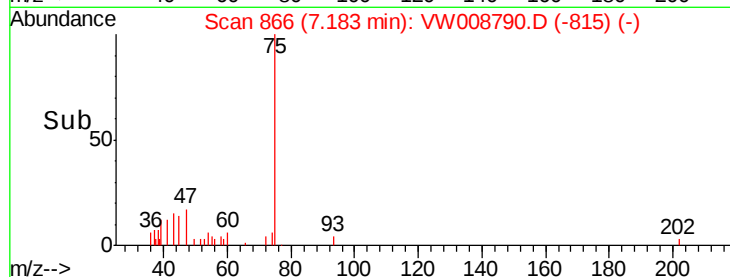
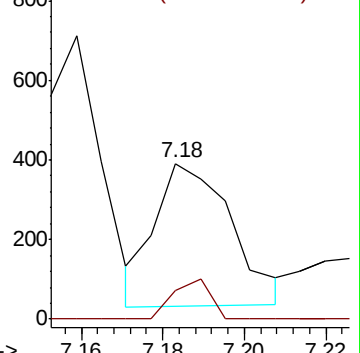
43 100

72 24.9 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.784 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW008790.D

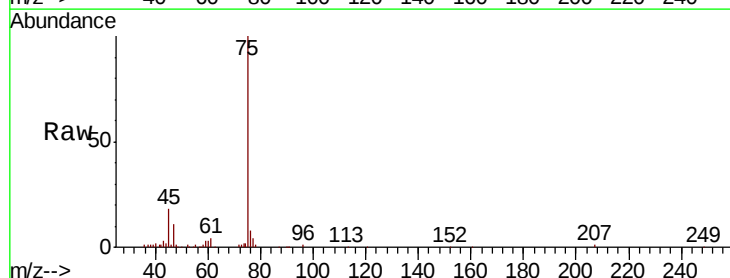
Acq: 22 Feb 2019 15:37

Tgt Ion: 77 Resp: 2330

Ion Ratio Lower Upper

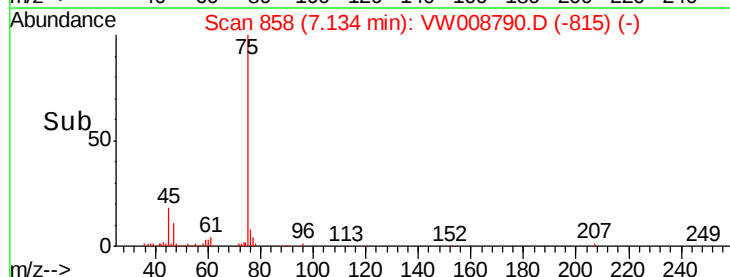
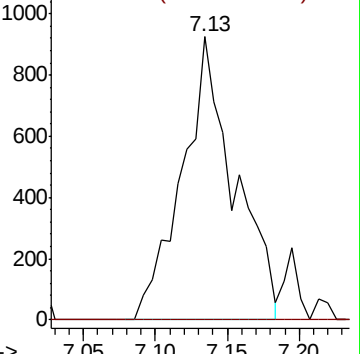
77 100

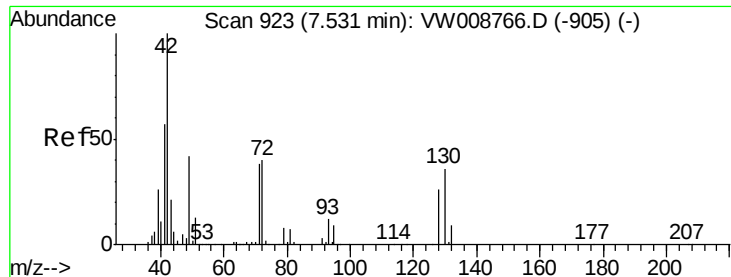
97 0.0 11.0 33.0#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#29

Tetrahydrofuran

Concen: 6.088 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

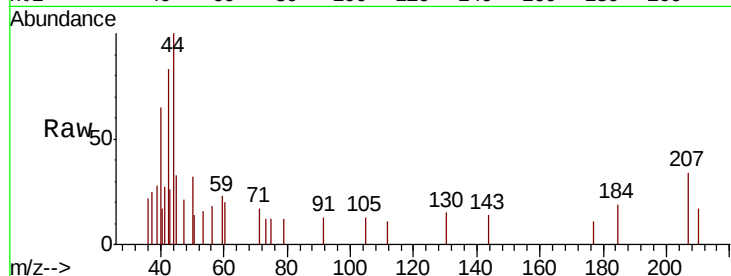
Tgt Ion: 42 Resp: 971

Ion Ratio Lower Upper

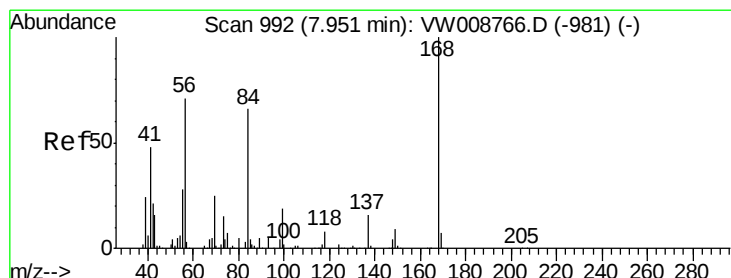
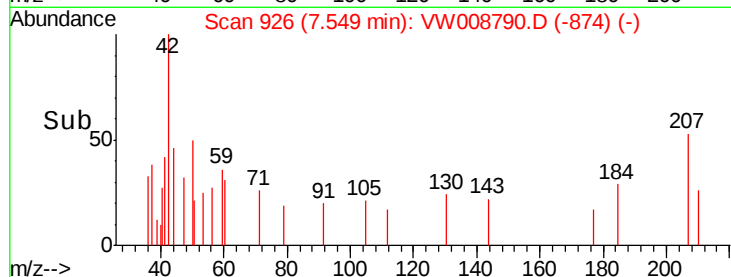
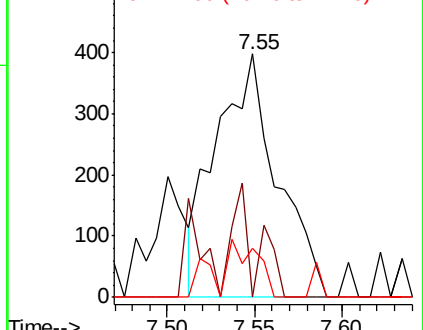
42 100

72 18.7 32.7 49.1#

71 10.9 31.3 46.9#



Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.470 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

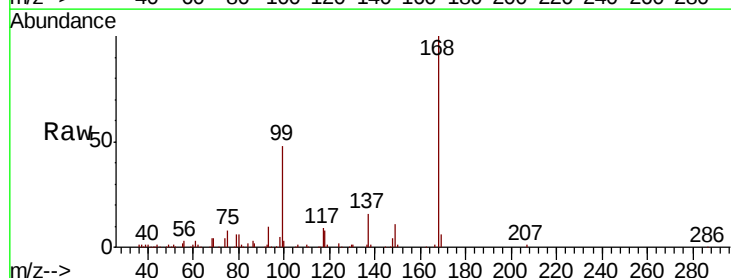
Tgt Ion: 56 Resp: 2140

Ion Ratio Lower Upper

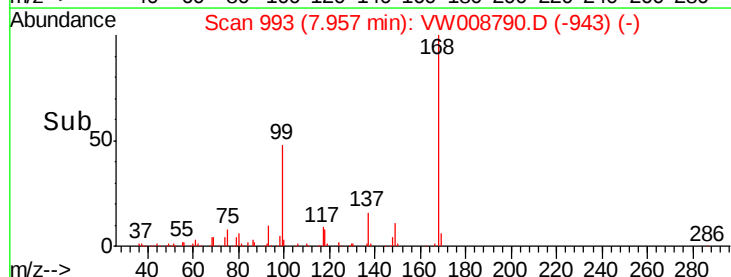
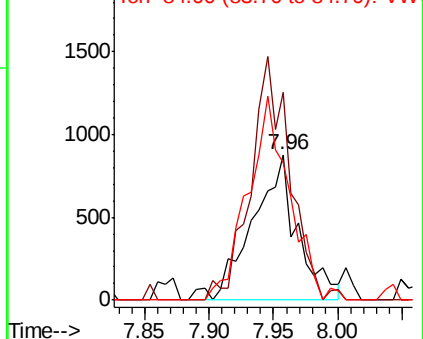
56 100

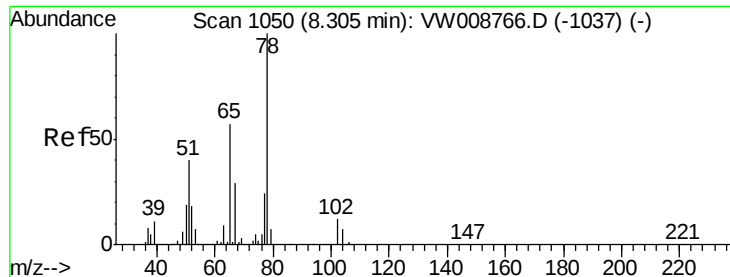
69 142.4 28.2 42.4#

84 94.3 74.1 111.1



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 50.655 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008790.D

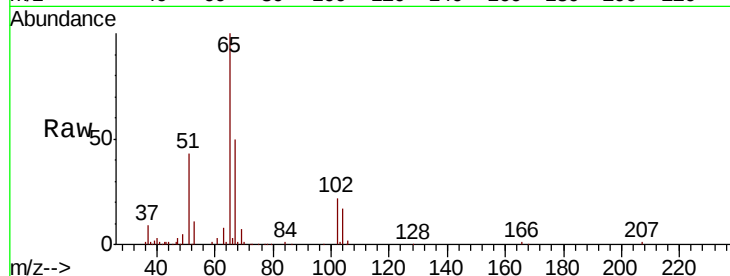
Acq: 22 Feb 2019 15:37

Tgt Ion: 65 Resp: 39124

Ion Ratio Lower Upper

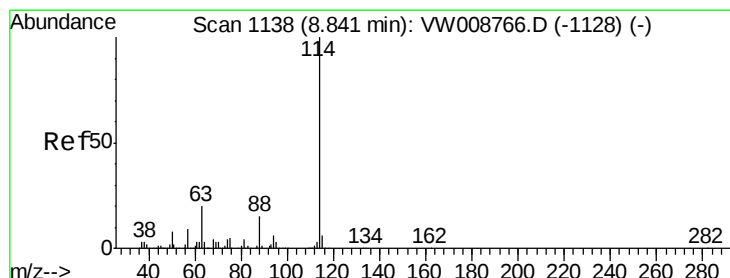
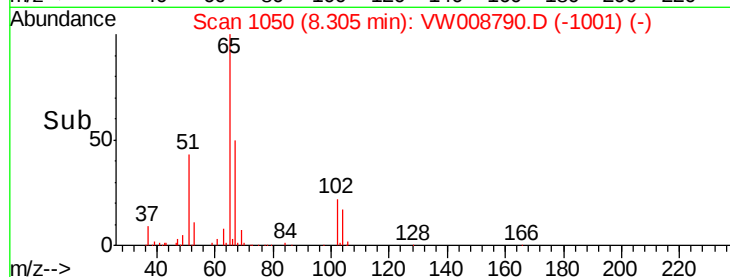
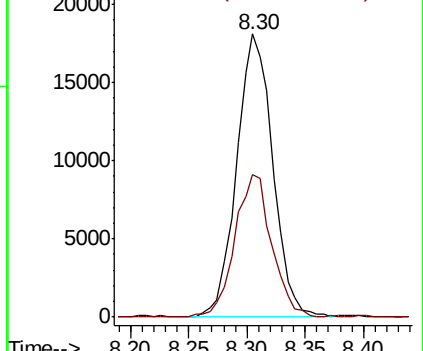
65 100

67 51.5 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

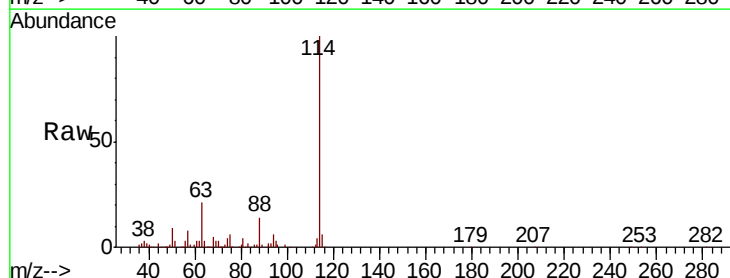
Tgt Ion: 114 Resp: 124528

Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.8

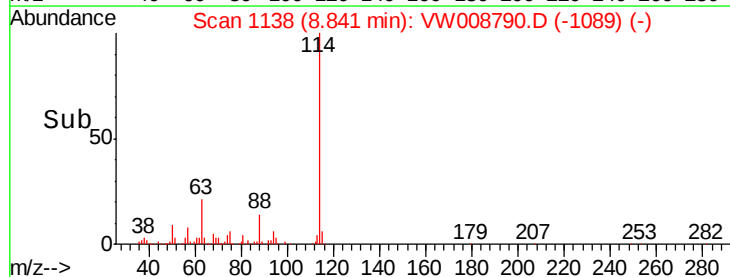
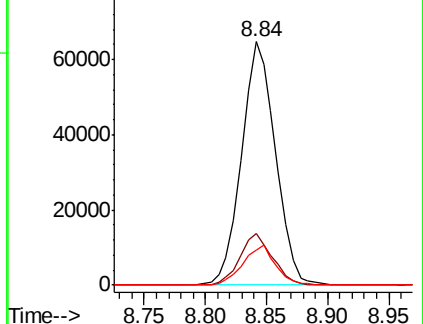
88 14.3 0.0 30.4

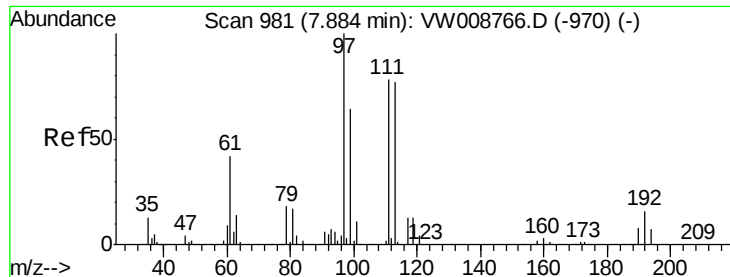


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

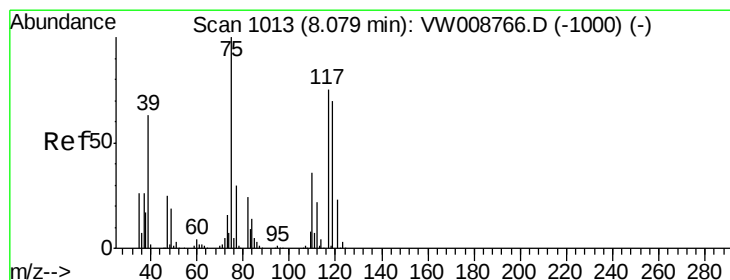
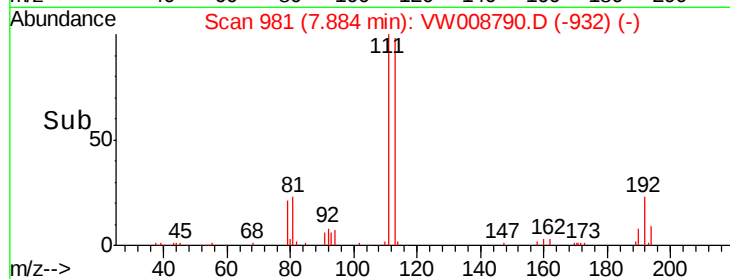
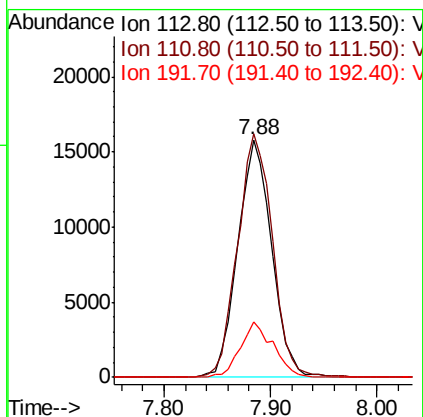
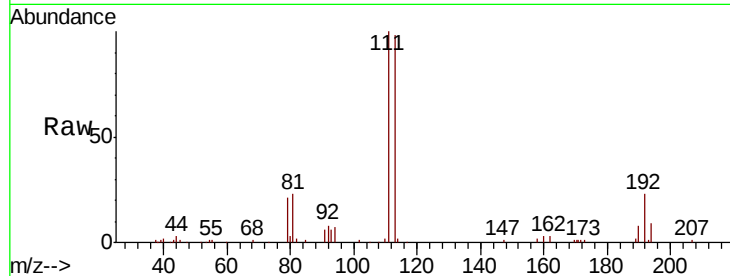
Ion 87.90 (87.60 to 88.60): VW





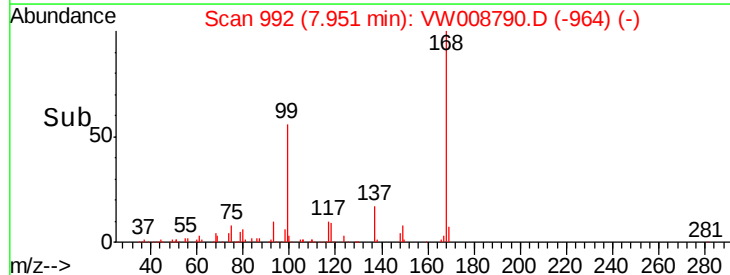
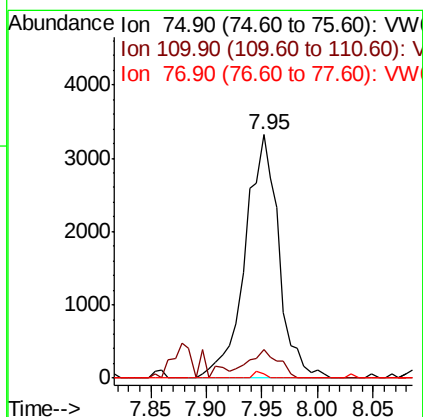
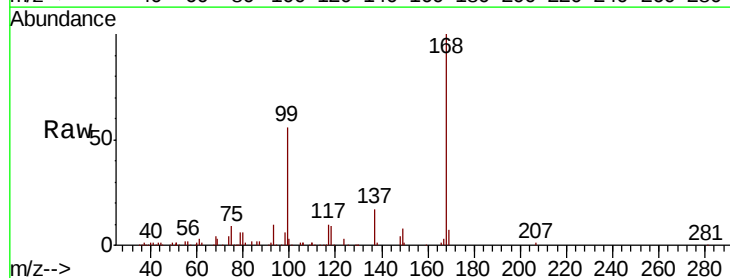
#35  
 Dibromofluoromethane  
 Concen: 47.254 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW008790.D  
 Acq: 22 Feb 2019 15:37

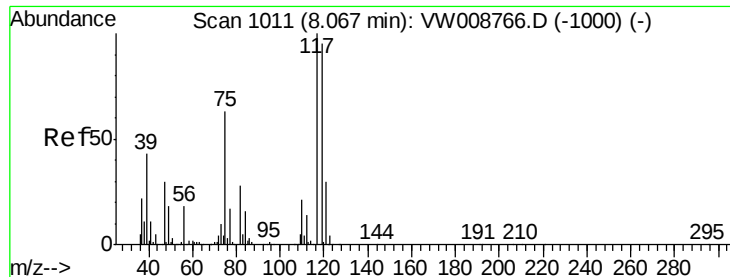
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.2 | 81.9  | 122.9 |
| 192     | 22.7  | 17.1  | 25.7  |



#36  
 1,1-Dichloropropene  
 Concen: 5.770 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW008790.D  
 Acq: 22 Feb 2019 15:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.5  | 17.5  | 52.6# |
| 77      | 0.8   | 24.5  | 36.7# |





#38

Carbon Tetrachloride

Concen: 6.104 ug/l

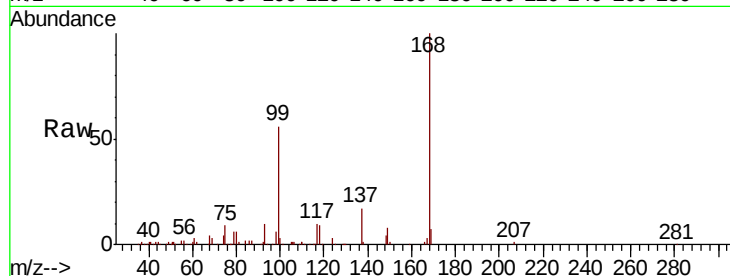
RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

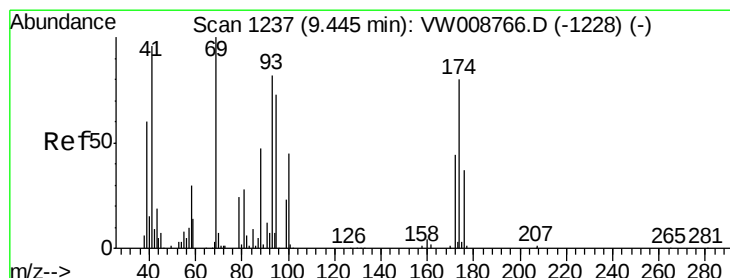
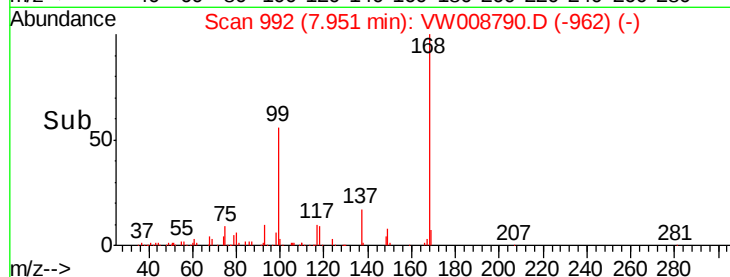
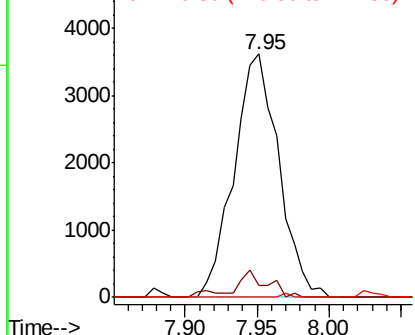
Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 7803   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.7   | 76.1  | 114.1# |
| 121      | 0.0   | 24.0  | 36.0#  |



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 7.000 ug/l

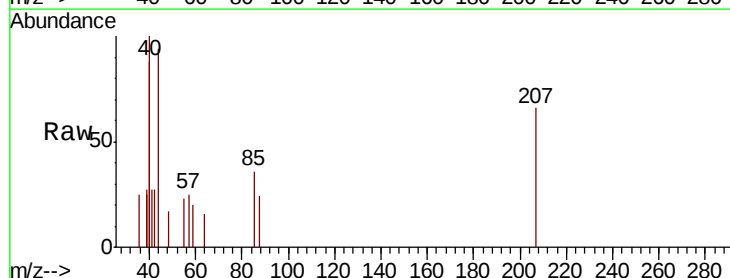
RT: 9.41 min Scan# 1231

Delta R.T. -0.04 min

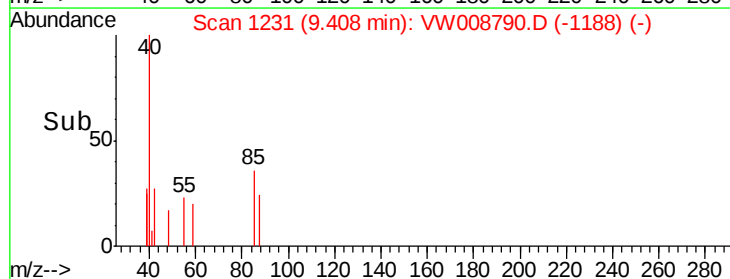
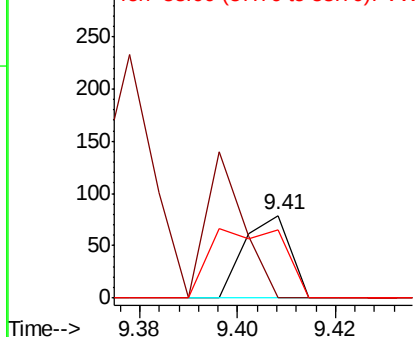
Lab File: VW008790.D

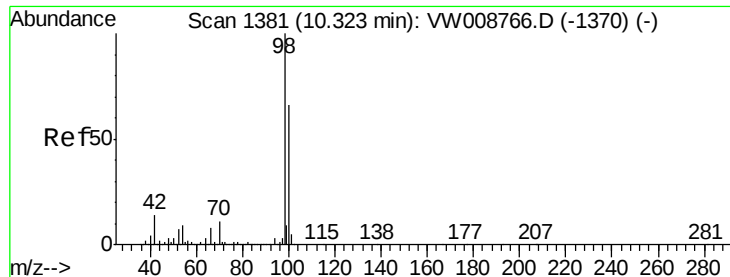
Acq: 22 Feb 2019 15:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 51    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 143.1 | 29.0  | 43.4# |
| 58       | 135.3 | 52.0  | 78.0# |



Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 38.317 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008790.D

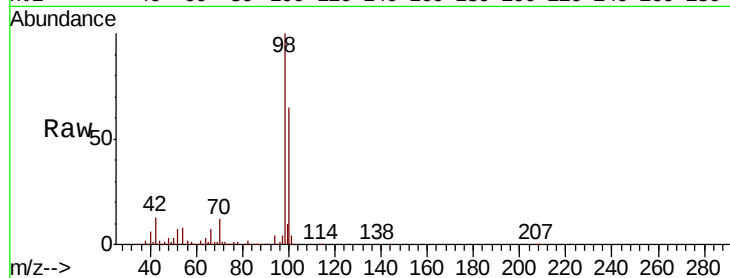
Acq: 22 Feb 2019 15:37

Tgt Ion: 98 Resp: 110592

Ion Ratio Lower Upper

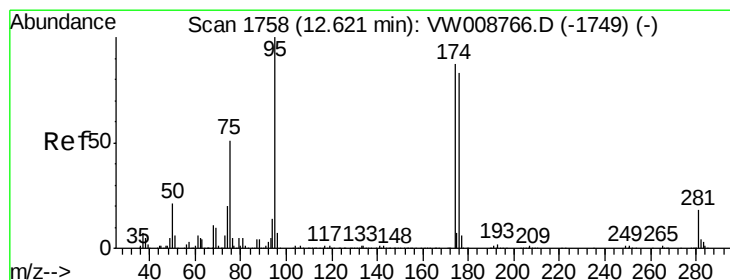
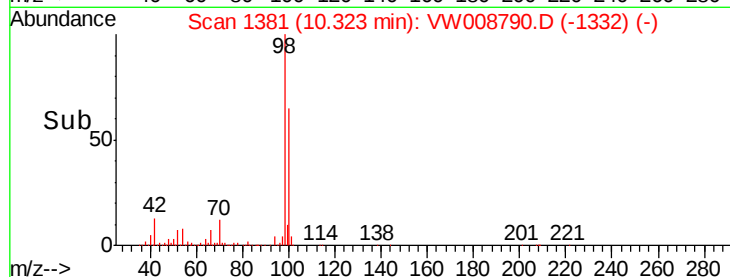
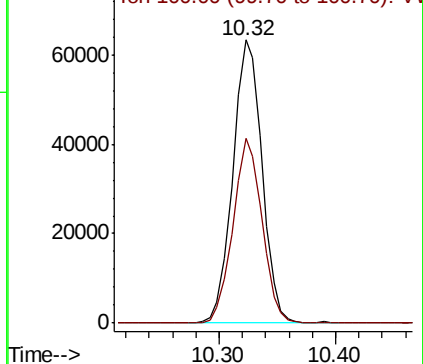
98 100

100 65.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 34.114 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008790.D

Acq: 22 Feb 2019 15:37

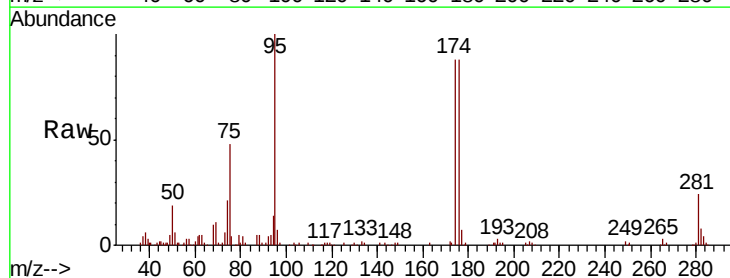
Tgt Ion: 95 Resp: 38552

Ion Ratio Lower Upper

95 100

174 85.7 0.0 169.2

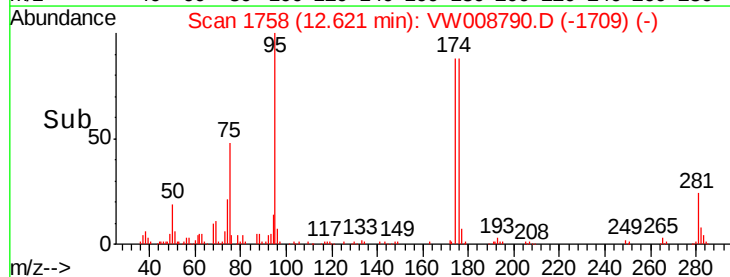
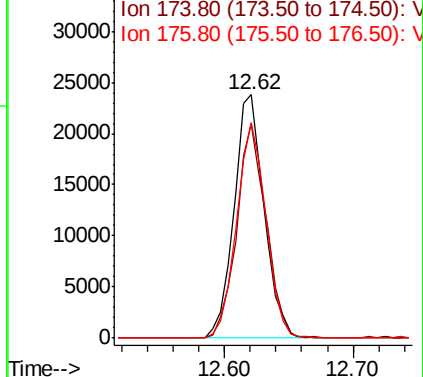
176 86.3 0.0 163.6

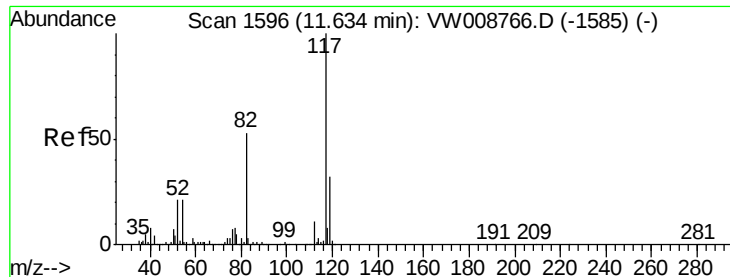


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

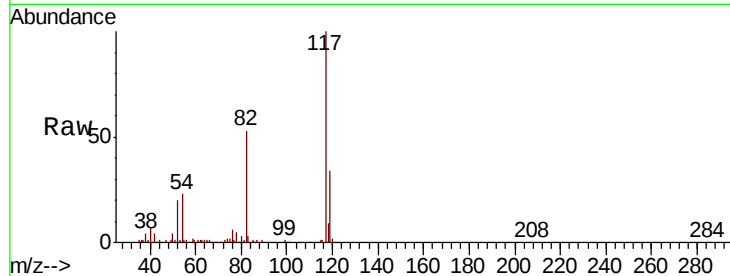
Ion 175.80 (175.50 to 176.50): V



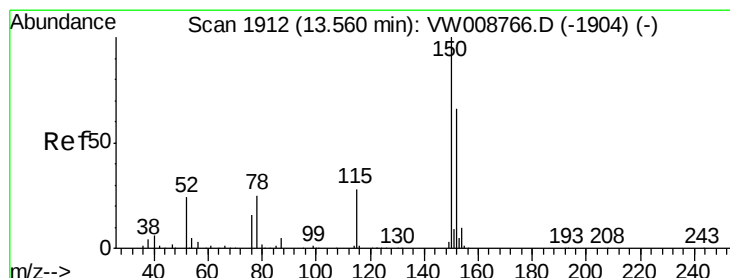
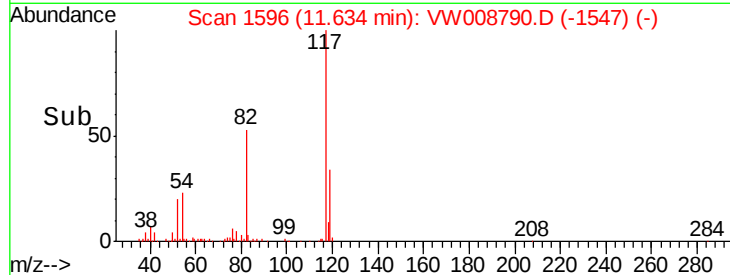
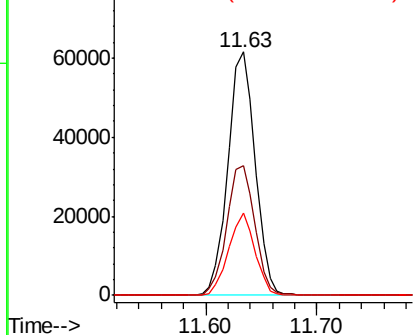


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008790.D  
Acq: 22 Feb 2019 15:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 104337 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.4  | 42.2  | 63.4   |
| 119      | 33.6  | 25.9  | 38.9   |

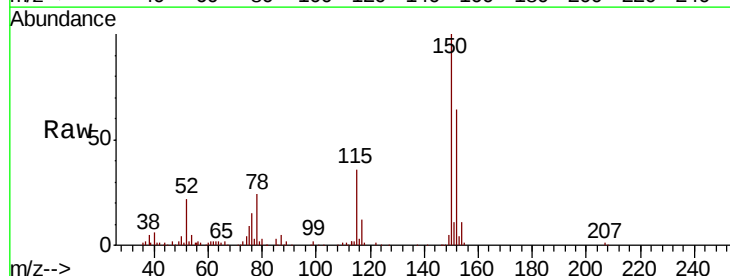


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

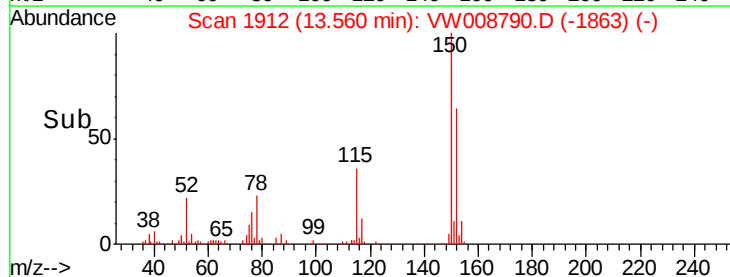
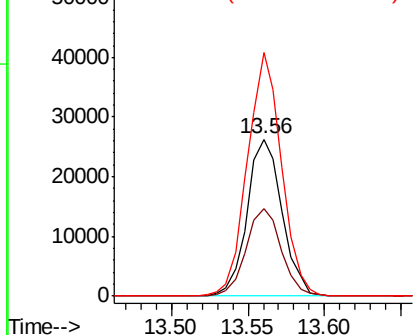


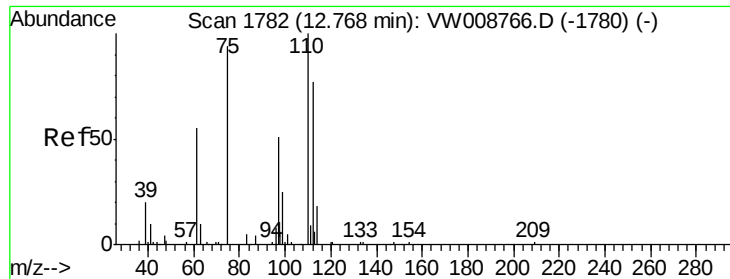
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008790.D  
Acq: 22 Feb 2019 15:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 41693 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 56.0  | 28.6  | 85.8  |
| 150      | 151.8 | 0.0   | 348.0 |



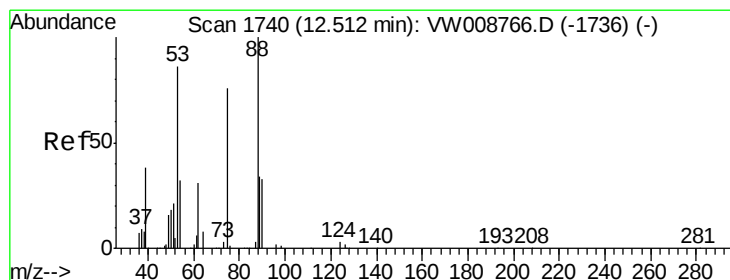
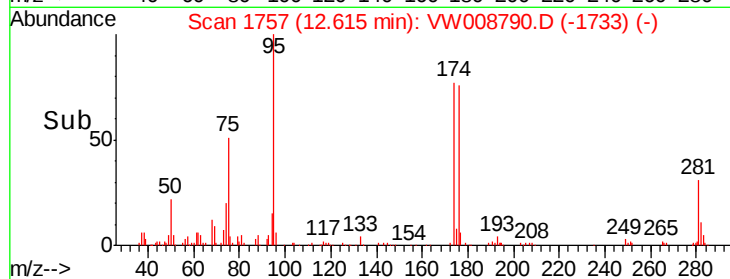
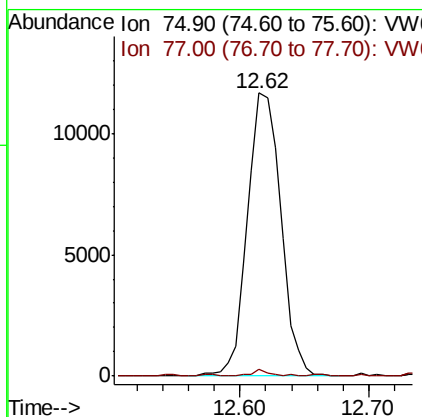
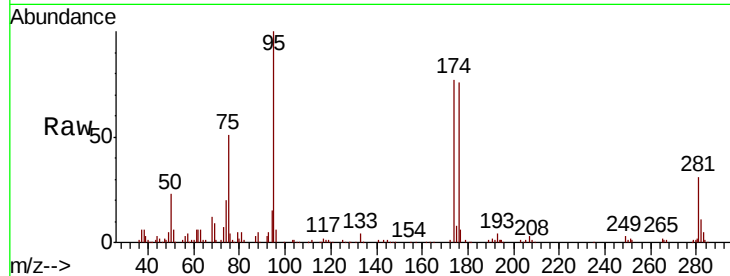
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76  
 1,2,3-Trichloropropane  
 Concen: 60.773 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW008790.D  
 Acq: 22 Feb 2019 15:37

Tgt Ion: 75 Resp: 20920  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 147.744 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW008790.D  
 Acq: 22 Feb 2019 15:37

Tgt Ion: 75 Resp: 20920  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 88.2 132.2#  
 89 0.7 39.5 59.3#

